



Product designation Product type designation			Power contactor BGF09
Contact characteristics			20100
Number of poles		nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		А	20
Operational current le			
	AC-1 (≤40°C)	А	160
	AC-3 (≤440V ≤55°C)	А	9
	AC-4 (400V)	А	4
Rated operational power AC-3 (T≤55°C)			
	230V	kW	2.2
	400V	kW	4
	415V	kW	4.3
	440V	kW	4.5
	500V	kW	5
	690V	kW	5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	8
	400V	kW	14
	500V	kW	16
	690V	kW	22
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	12
	48V	А	10
	75V	А	4
	110V	А	3
	220V	Α	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	15
	48V	А	14
	75V	А	9
	110V	А	8
	220V	Α	-
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	16
	48V	А	16
	75V	А	10
	110V	А	10
IFC may current le in DC1 with $L/R < 1$ ms with 4 poles in series	220V	Α	2

IEC max current le in DC1 with L/R \leq 1ms with 4 poles in series



	≤24V	А	16
	48V	А	16
	75V	А	10
	110V	А	10
	220V	А	2
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			
	≤24V	А	7
	48V	А	6
	75V	А	2
	110V	А	1
	220V	А	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	А	8
	48V	A	8
	75V	A	5
	110V	A	4
	220V	A	-
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series	220 V	A	
IEC max current le in DC3-DC3 with ETC 3 13ms with 3 poles in series	≤24V	А	10
	<u>≤</u> 24∨ 48V	A	10
	40V 75V		
	110V	A	6 5
		A	
IEC may surrent to in DC2 DC5 with $L/D < 45$ may with 4 solar in particular	220V	A	0.8
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series	-0.0.1		4.0
	≤24V	A	10
	48V	A	10
	75V	A	6
	110V	A	5
	220V	A	0.8
Short-time allowable current for 10s (IEC/EN60947-1)		А	96
Protection fuse		_	
	gG (IEC)	Α	20
	aM (IEC)	A	10
Making capacity (RMS value)		Α	92
Breaking capacity at voltage			
	440V	A	72
	500V	A A	72
			72 72
Breaking capacity at voltage	500V	А	72
	500V	A A	72 72
Breaking capacity at voltage Resistance per pole (average value)	500V	A A	72 72
Breaking capacity at voltage Resistance per pole (average value)	500V 690V	A A mΩ	72 72 10
Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value)	500V 690V Ith	A A mΩ W	72 72 10 4
Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value)	500V 690V Ith	A A mΩ W	72 72 10 4
Breaking capacity at voltage Resistance per pole (average value)	500V 690V Ith AC3	A A mΩ W W	72 72 10 4 0.81
Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value)	500V 690V Ith AC3 min	A MΩ W W W	72 72 10 4 0.81 0.8
Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value)	500V 690V Ith AC3 min max	A MΩ W W W	72 72 10 4 0.81 0.8 1 0.6
Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals	500V 690V Ith AC3 min max min	A MΩ W W Nm Nm	72 72 10 4 0.81 0.8 1
Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals	500V 690V Ith AC3 min max min max	A MΩ W W Nm Ibin Ibin	72 72 10 4 0.81 0.8 1 0.6 0.7
Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value)	500V 690V Ith AC3 min max min max min max	A MΩ W W Nm Ibin Ibin	72 72 10 4 0.81 0.8 1 0.6 0.7 0.8
Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals	500V 690V Ith AC3 min max min max	A MΩ W W W Nm Ibin Ibin Ibin	72 72 10 4 0.81 0.8 1 0.6 0.7 0.8 1
Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals	500V 690V Ith AC3 min max min max min max	A MΩ W W Nm Ibin Ibin	72 72 10 4 0.81 0.8 1 0.6 0.7 0.8

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Conductor section

Conductor section				
	Flexible w/o lug conductor section			
		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section	on		
		min	mm²	1.5
		max	mm²	2.5
Power terminal protect	tion according to IEC/EN 60529			IP20 when wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	180
Auxiliary contact chara	acteristics			
Type of contact				1 NO
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	signation			A600 - Q600
Operating current AC				
		230V	А	3
		400V	A	1.9
		500V	A	1.4
Operating current DC	12			
- p		110V	А	2.9
Operating current DC	13			
opolaling callent 2 c		24V	А	2.9
		48V	A	1.4
		60V	A	1.1
		125V	A	0.3
		220V	A	0.1
		600V	A	0.6
Operations		0001	~	0.0
Mechanical life			cycles	2000000
Electrical life			cycles	500000
Safety related data			Cycles	300000
	0d according to EN/ISO 13489-1			
	00 0000000 10 EN/100 10-00-1	rated load	oveloe	500000
		mechanical load	cycles cycles	2000000
Mirror contate accord	ing to IEC/EN 600474 4 1		cycles	
	ing to IEC/EN 609474-4-1			yes
EMC compatibility			N/	yes
Rated AC voltage at 6			V	24
AC coil operating				
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up		0/11	75
		min	%Us	75
		max	%Us	115
	drop-out		0/11	0.0
		min	%Us	20



11BGF0910A02460 Stycznik 3 polowy, 9A w AC3, wbudowany zestyk 1NO, 24VAC/60Hz wersja faston

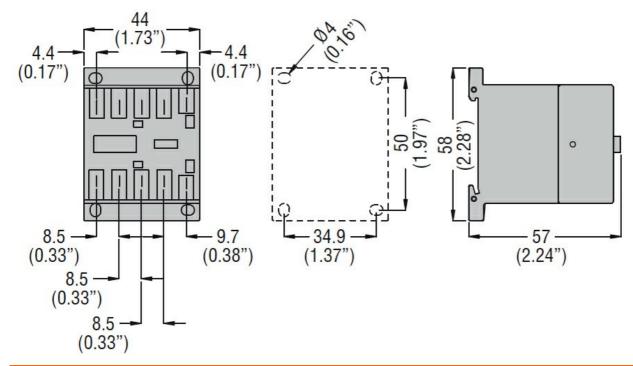
			max	%Us	55
AC average coil consu	umption at 20°C				
-	of 50/60Hz coil p	owered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil p	oowered at 60Hz			
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil pow	ered at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holding				W	0.95
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us c					
	in AC				
		Closing NO			
			min	ms	12
		0	max	ms	21
		Opening NO	-		•
			min	ms	9
			max	ms	18
		Closing NC			. –
			min	ms	17
			max	ms	26
		Opening NC			7
			min	ms	7 17
	in DC		max	ms	17
	III DC	Closing NO			
			min	ms	18
			max	ms	25
		Opening NO	Пах	mo	20
			min	ms	2
			max	ms	3
		Closing NC	Шах		-
			min	ms	3
			max	ms	5
		Opening NC			
			min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA) for three-phase A	C motor			
·	-		at 480V	А	7.6
			at 600V	А	6.1
Yielded mechanical pe	erformance				
	for single-phase	AC motor			
			110/120V	HP	0.5
			230V	HP	1.5
	for three-phase	AC motor			
	·		200/208V	HP	2
			220/230V	HP	3
			460/480V	HP	5

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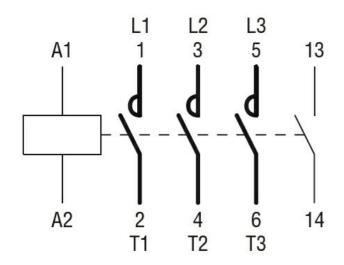
ENERGY AND AUTOMATION 575/600V HP 5 General USE

AC current	А	20
Short circuit current	kA	100
Fuse rating	А	30
Fuse class		J
Short circuit current	kA	5
Fuse rating	Α	30
		A600 - Q600
min	°C	-50
max	°C	+70
min	°C	-60
max	°C	+80
	m	3000
		3
	Short circuit current Fuse rating Fuse class Short circuit current Fuse rating min max	Short circuit current kA Fuse rating A Fuse class Short circuit current kA Fuse rating A min °C max °C



Wiring diagrams





Certifications and compliance

Compliance

Compliance	
	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN 60947-1
	IEC/EN 60947-4-1
	UL 60947-1
	UL 60947-4-1
Certificates	
	CCC
	cULus
	EAC
ETIM classification	

ETIM 8.0

EC000066 -Power contactor, AC switching